

***Mycobacterium tuberculosis*, Strain H37Rv, Total Lipids Kit Containing Hypoxic and Normoxic Cultures**

Catalog No. NR-48697

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For research use only. Not for use in humans.

Contributor:

BEI Resources

Manufacturer:

Karen Dobos, Ph.D., Colorado State University, Fort Collins, Colorado, USA

Product Description:

NR-48697 is a kit comprised of total lipid preparations from both hypoxic and normoxic cultures of irradiated *Mycobacterium tuberculosis* (*M. tuberculosis*), strain H37Rv. The total cellular lipids typically include those with known biological activities, such as trehalose dimycolate (TDM) and sulpholipids. The cultures were grown to late log phase in glycerol-alanine-salts medium, washed with PBS, inactivated by gamma irradiation and dried. The cellular lipids were extracted with chloroform/methanol (2:1). Cells were removed by filtration and contaminating hydrophilic molecules were removed by biphasic partitioning with water (Folch wash). The organic phase of the Folch wash was collected and dried.

Kit Component	BEI Resources Product Number
<i>M. tuberculosis</i> , Strain H37Rv, Total Lipids (hypoxic culture)	NR-36508
<i>M. tuberculosis</i> , Strain H37Rv, Total Lipids (normoxic culture)	NR-36509

Material Provided:

Each kit consists of one vial of total lipid from a hypoxic culture and one vial of total lipid from a normoxic culture of *M. tuberculosis*, strain H37Rv, each containing approximately 1 mg of dried total lipid. The vials are individually labeled with the BEI Resources product number, lot number and product name.

Note: Total lipid is soluble in chloroform:methanol (2:1). DMSO can also be used depending on the downstream application.

Packaging/Storage:

Each component of NR-48697 was packaged aseptically in glass vials. The product is provided at room temperature and should be stored at room temperature in a dry atmosphere immediately upon arrival.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: *Mycobacterium tuberculosis*, Strain H37Rv, Total Lipids Kit Containing Hypoxic and Normoxic Cultures, NR-48697.”

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbi5/index.htm.

Disclaimers:

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References:

1. Cole, S. T., et al. “Deciphering the Biology of *Mycobacterium tuberculosis* from the Complete Genome Sequence.” Nature 393 (1998): 537-544. PubMed: 9634230. Erratum in: Nature 396 (1998): 190-198.
2. Hancock, C. I., et al. eds. Bacterial Cell Surface Techniques. New York: Wiley & Sons, 1988. 125-135.

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